

RSV genome B1p/ΔSH

FIG. 1A

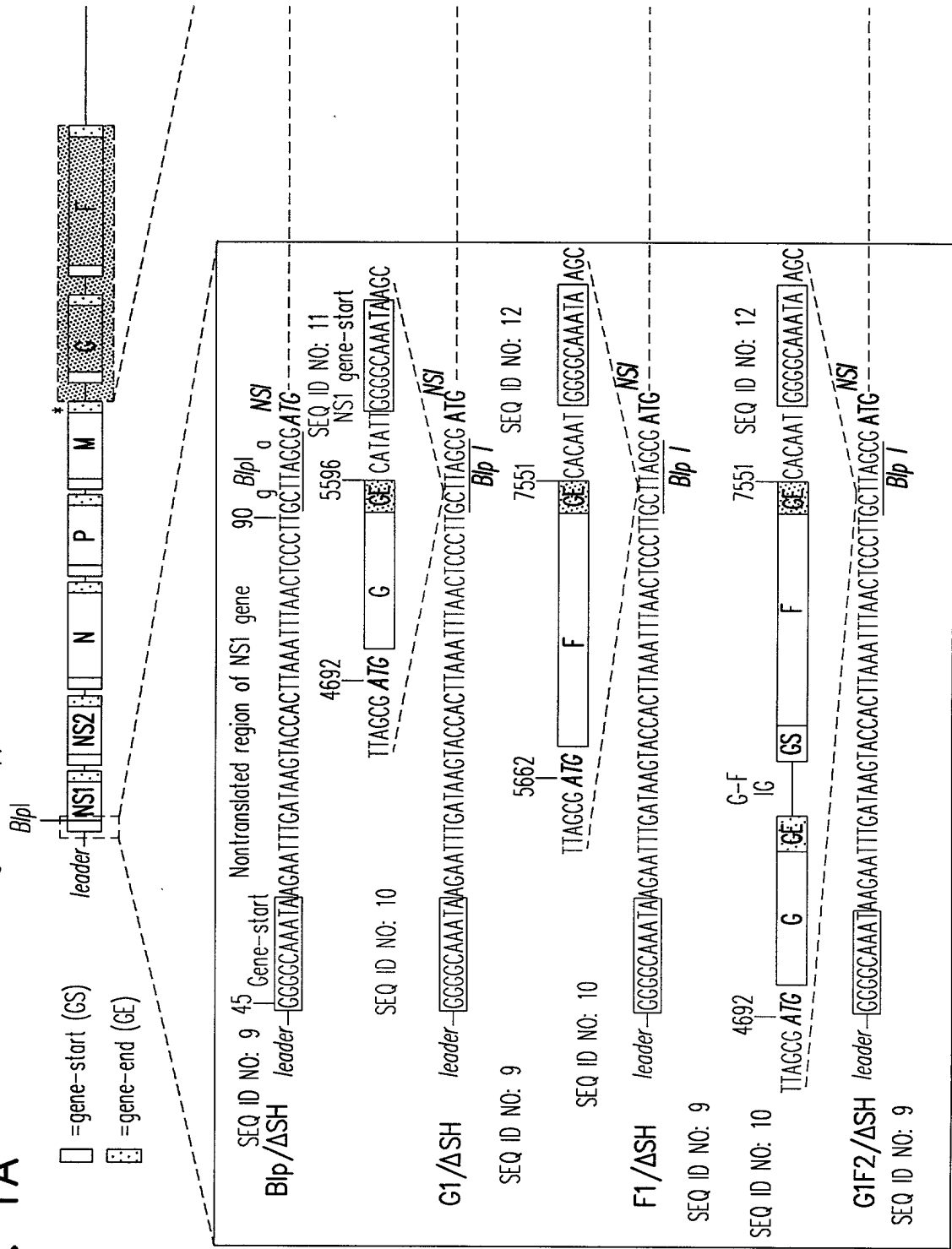
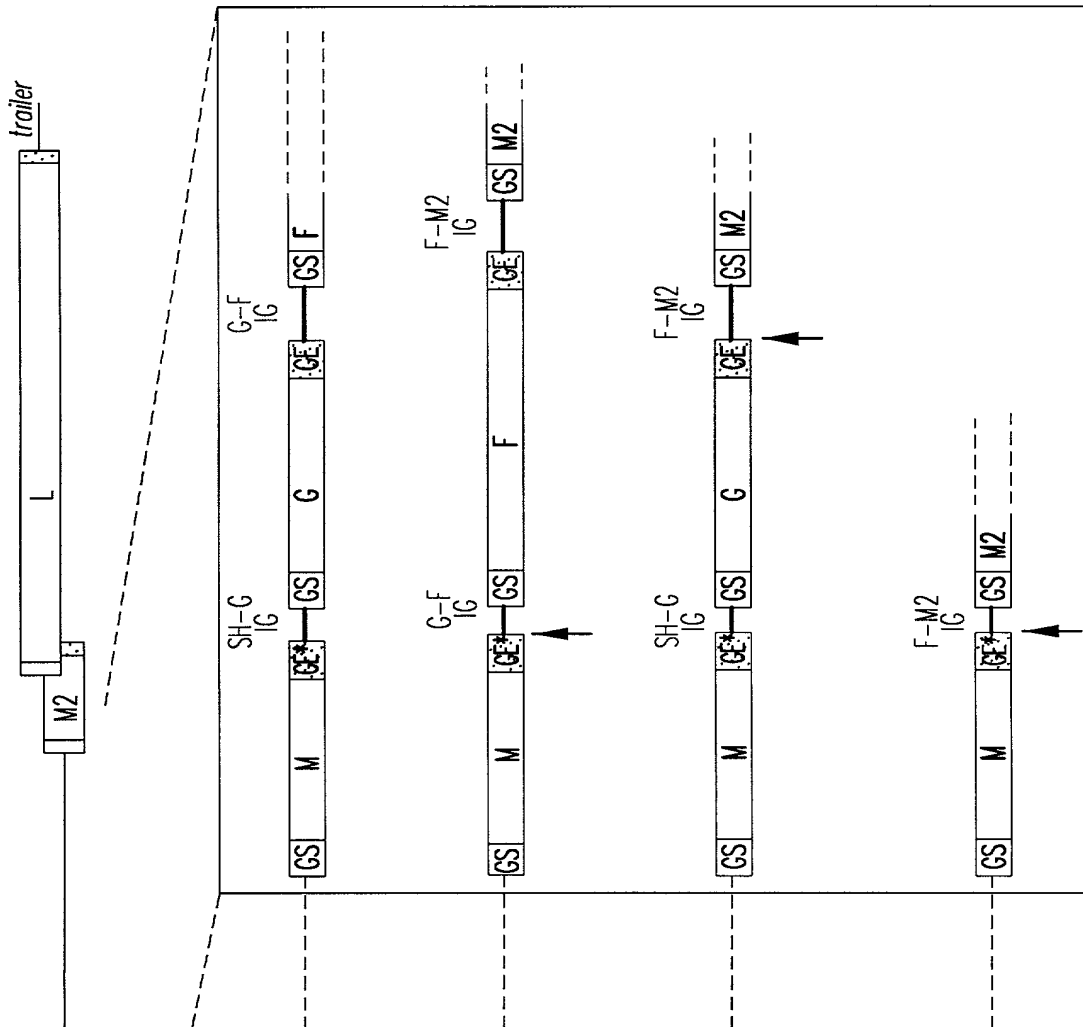


FIG. 1B



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3/17

FIG. 2

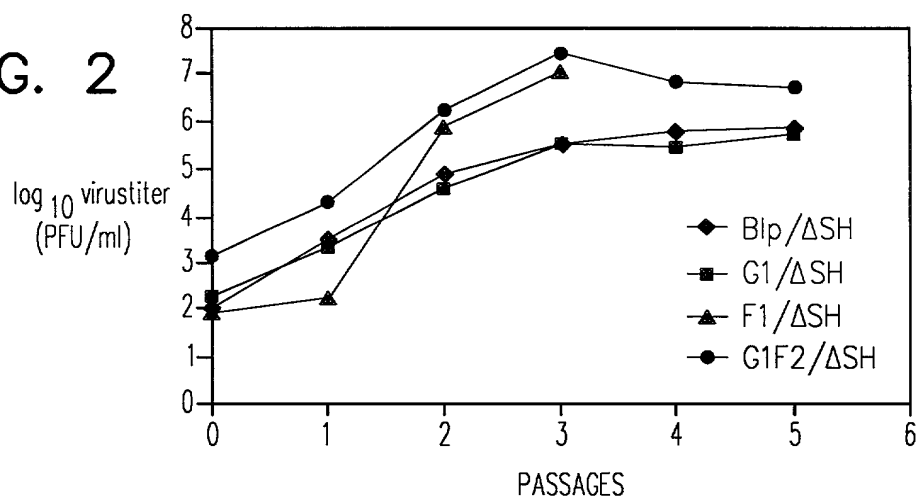
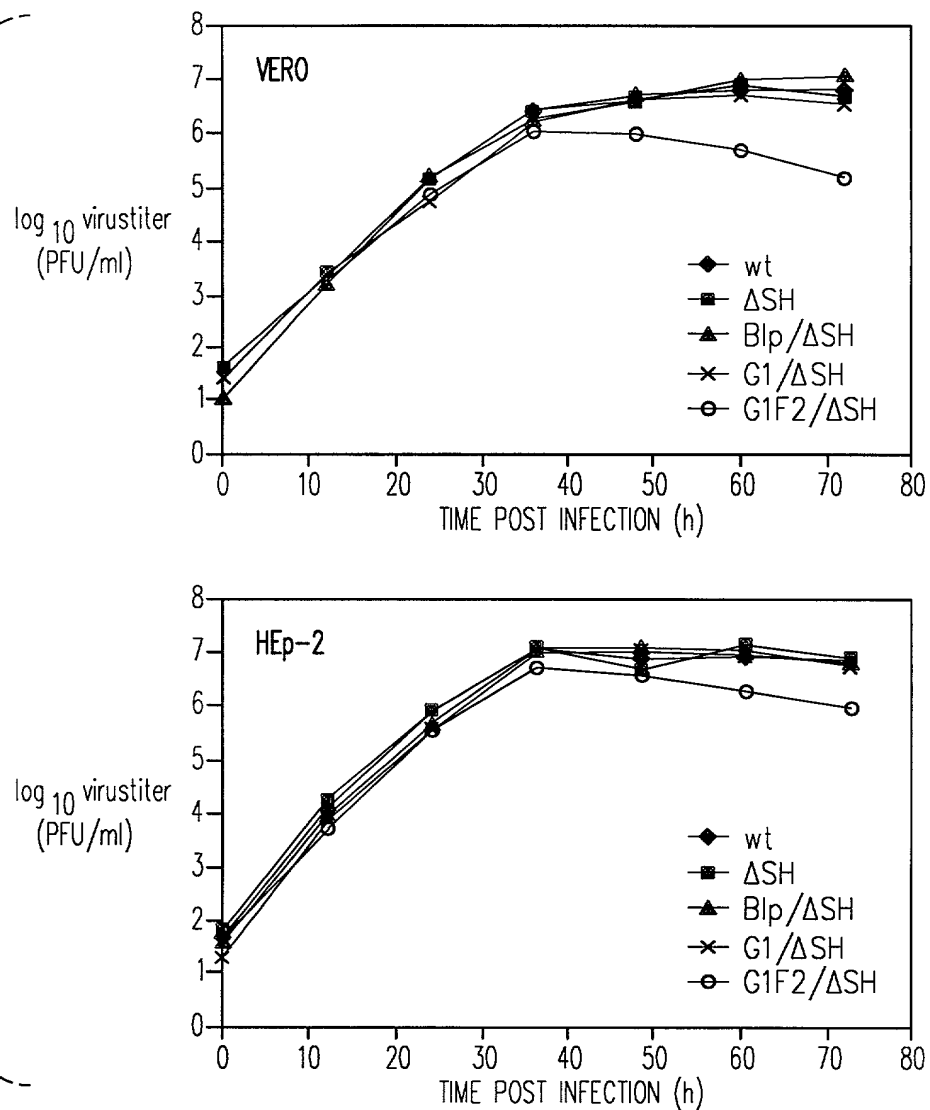


FIG. 3A



4/17

FIG. 3B

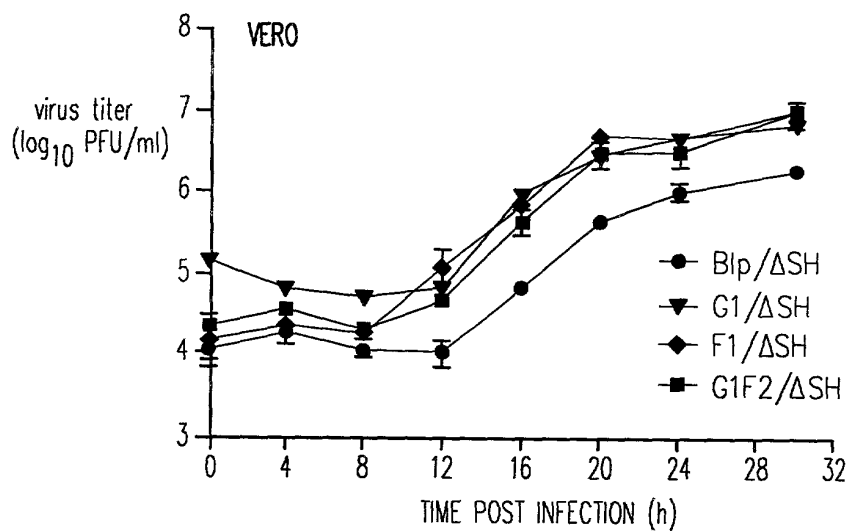
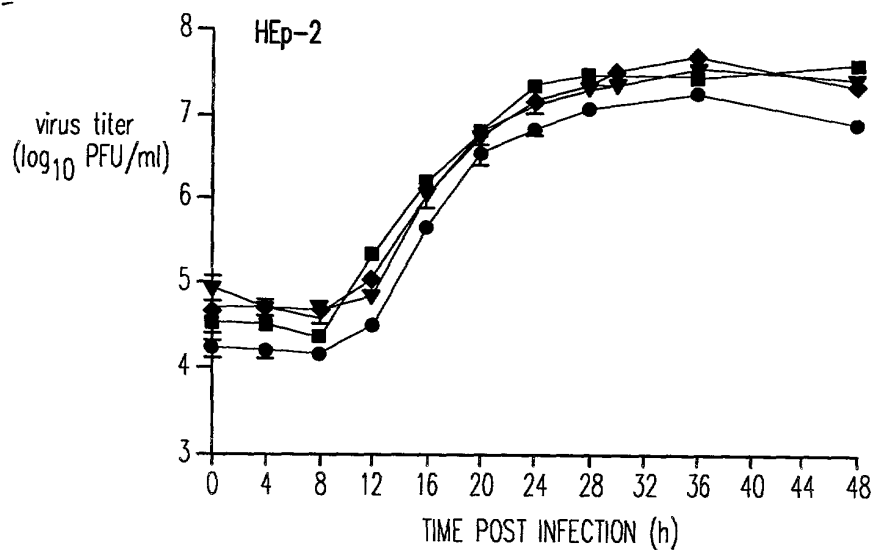
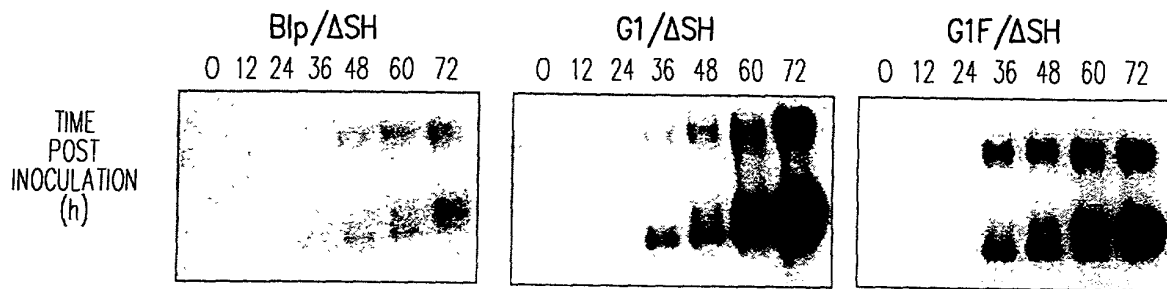
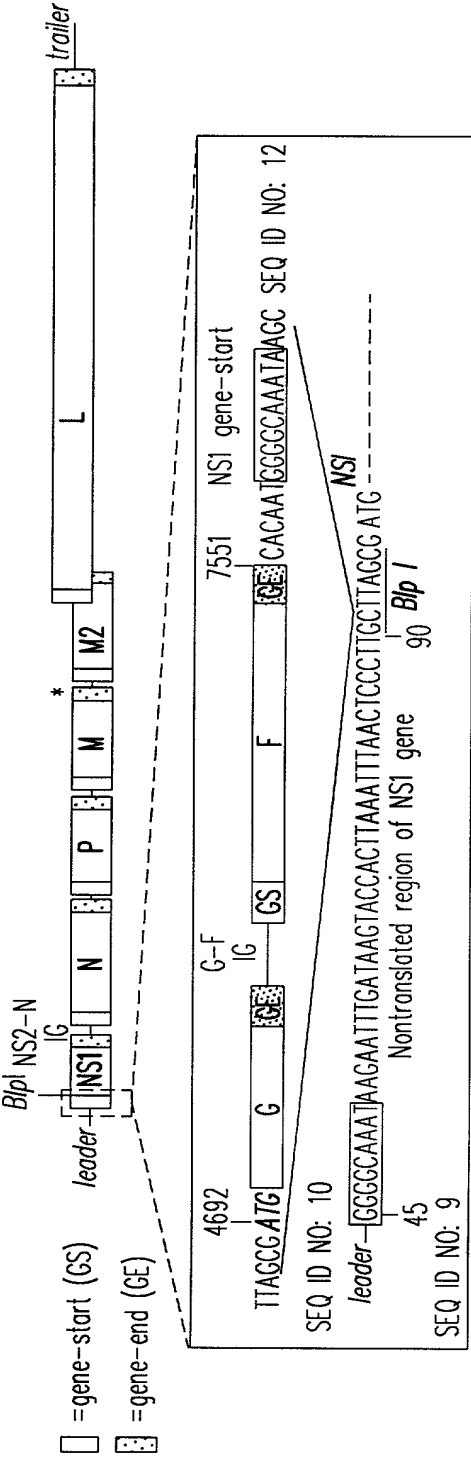


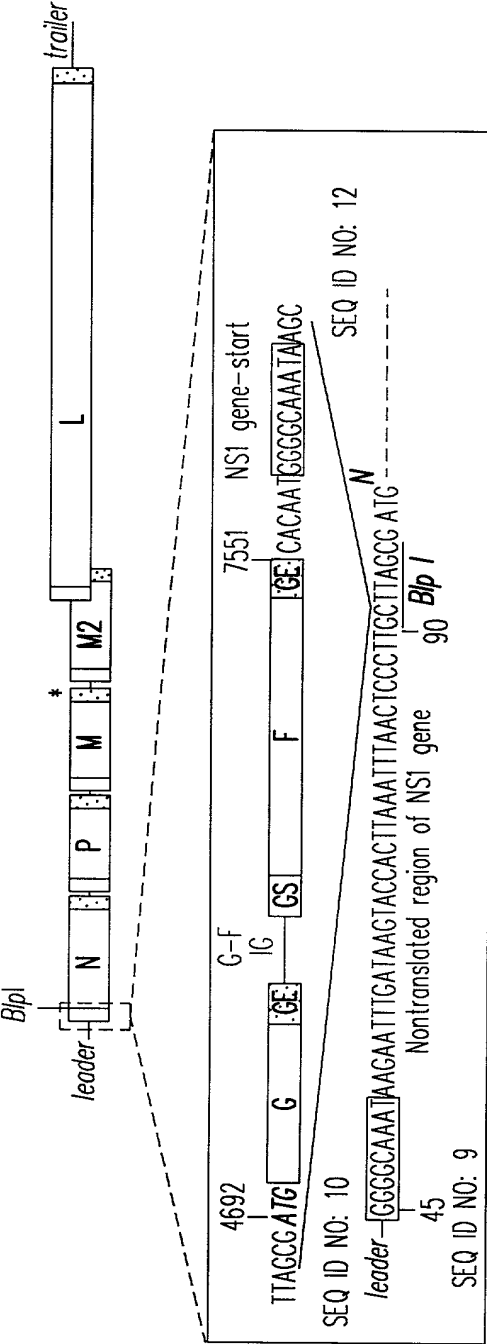
FIG. 4



Panel A. RSV genome G1F2/ Δ NS2



Panel B. RSV genome G1F2/ Δ NS1 Δ NS2



A. rBRSV

leader — NS1 — NS2 — N — P — M — SH — G — F — M2 — L — trailer

NotI 67 SalI 4,668 XhoI 7,466

B. Modifications to rBRSV to create rBRSV/A2-GIF2

leader — NS1 — NS2 — N — P — M — SH — G — F — M2 — L — trailer

NotI 67 SalI delete XhoI

SEQ ID NO: 13 leader — CCGGCCAAATACAAGTTAATCCGGCCCCGCCCCCTCCTTCACAAAAATG ---

Gene-start NotI 55 NSI

SEQ ID NO: 15 CCGGCCGTAAATTACTCCCTTGCCTTAGCCATG ---

Gene-start BlpI 4692 G-F IG CS F GE CACAAATCGGGCCAAATAAGCTTAGCGGGCGG NotI 7551 Gene-start BlpI NotI

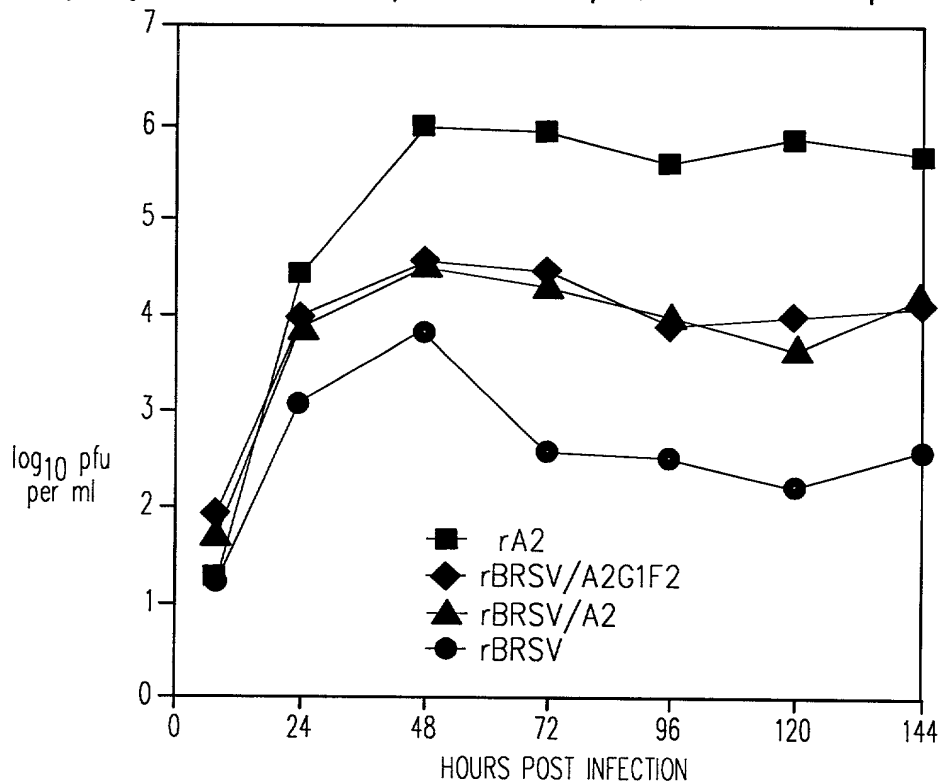
C. rBRSV/A2-GIF2

leader — G — F — NS1 — NS2 — N — P — M — SH — M2 — L — trailer

7/17

FIG. 7

Multicycle growth of rA2, rBRSV/A2G1F2, rBRSV/A2, and rBRSV in HEp-2 cells



Multicycle growth of rA2, rBRSV/A2G1F2, rBRSV/A2, and rBRSV in MDBK cells

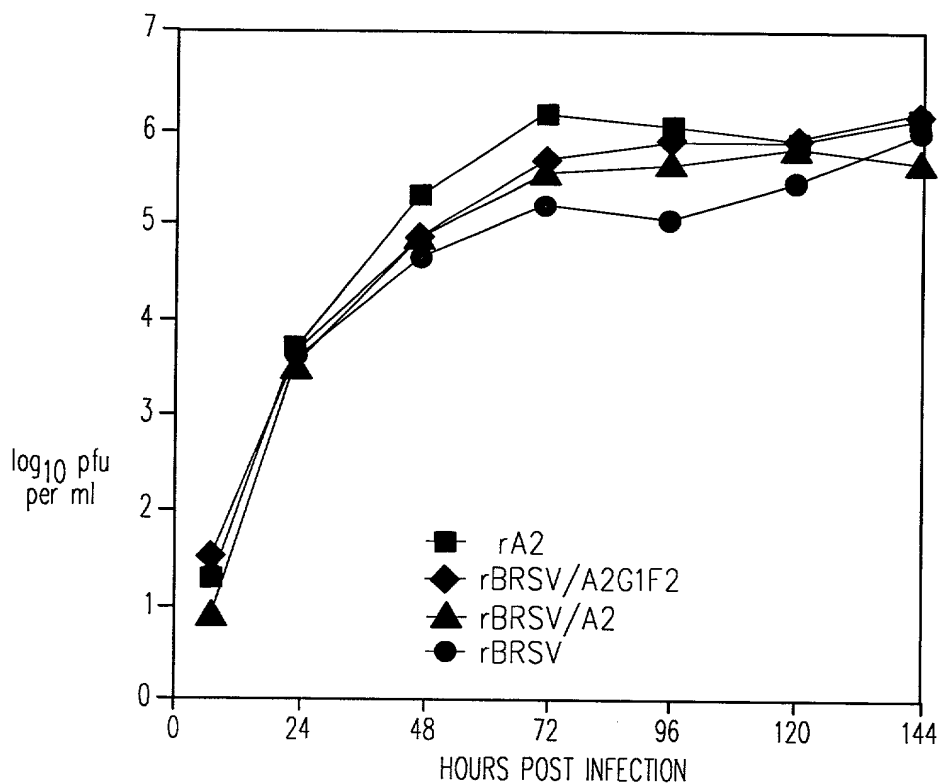


FIG. 8

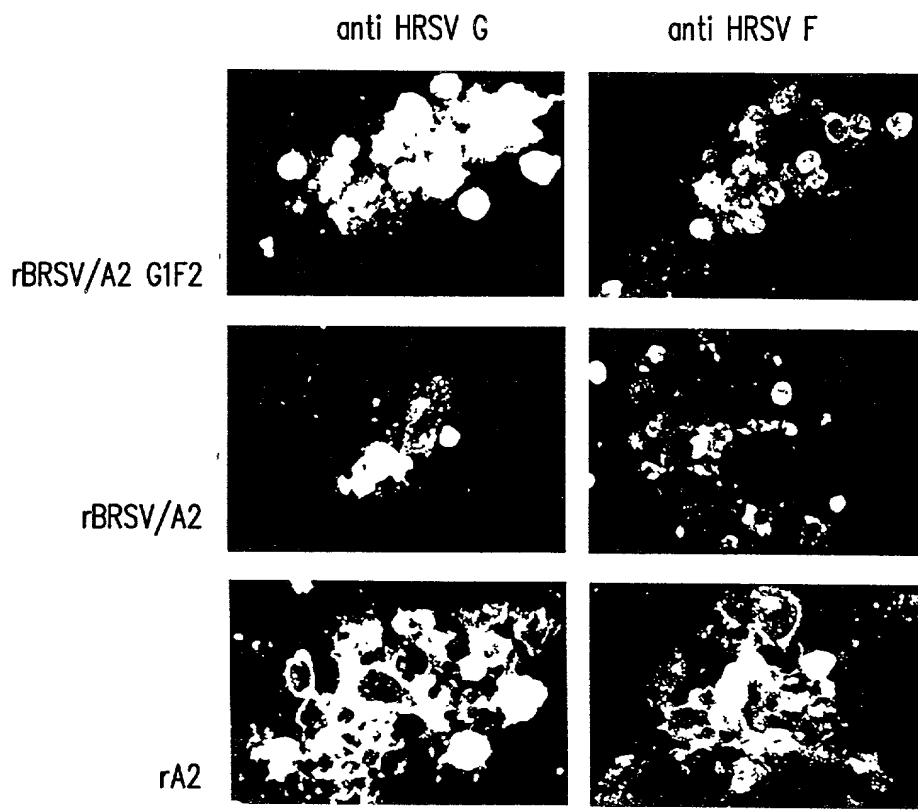
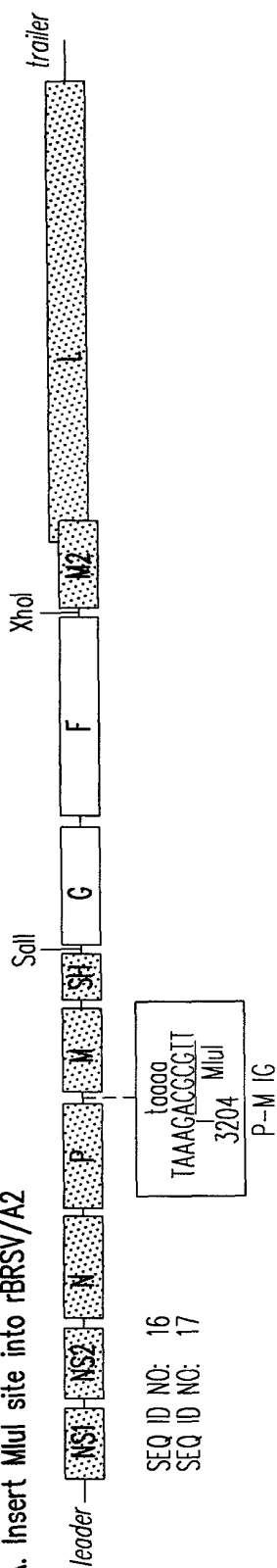
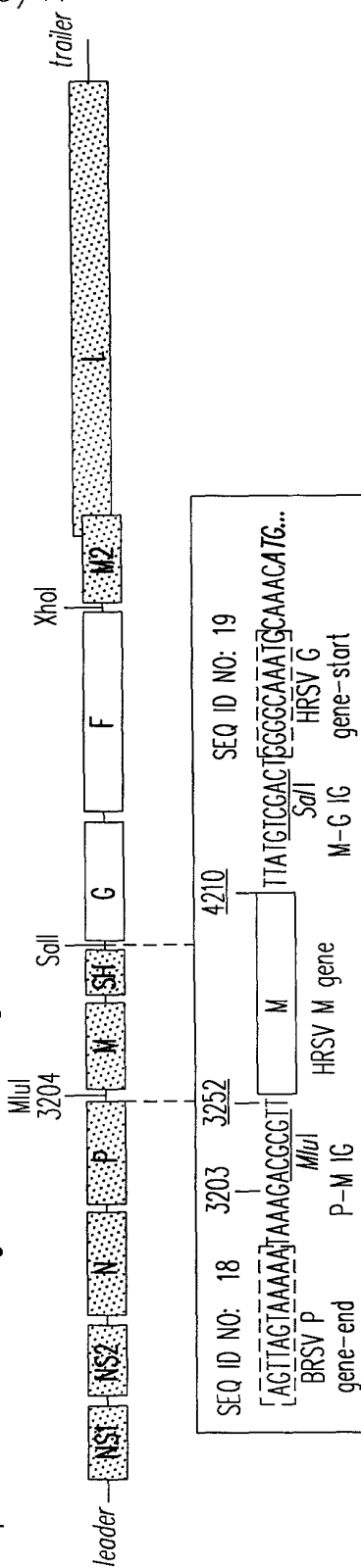


FIG. 9

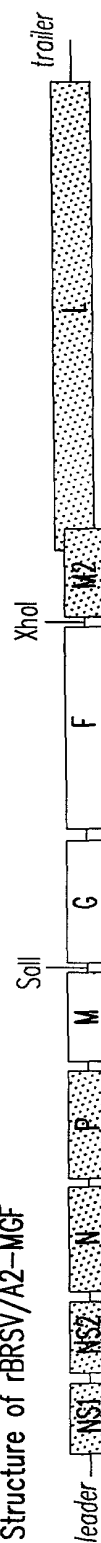
A. Insert *Mlu*I site into rBRSV/A2



B. Replace BRSV M and SH genes with HRSV M gene to create rBRSV/A2-MGF

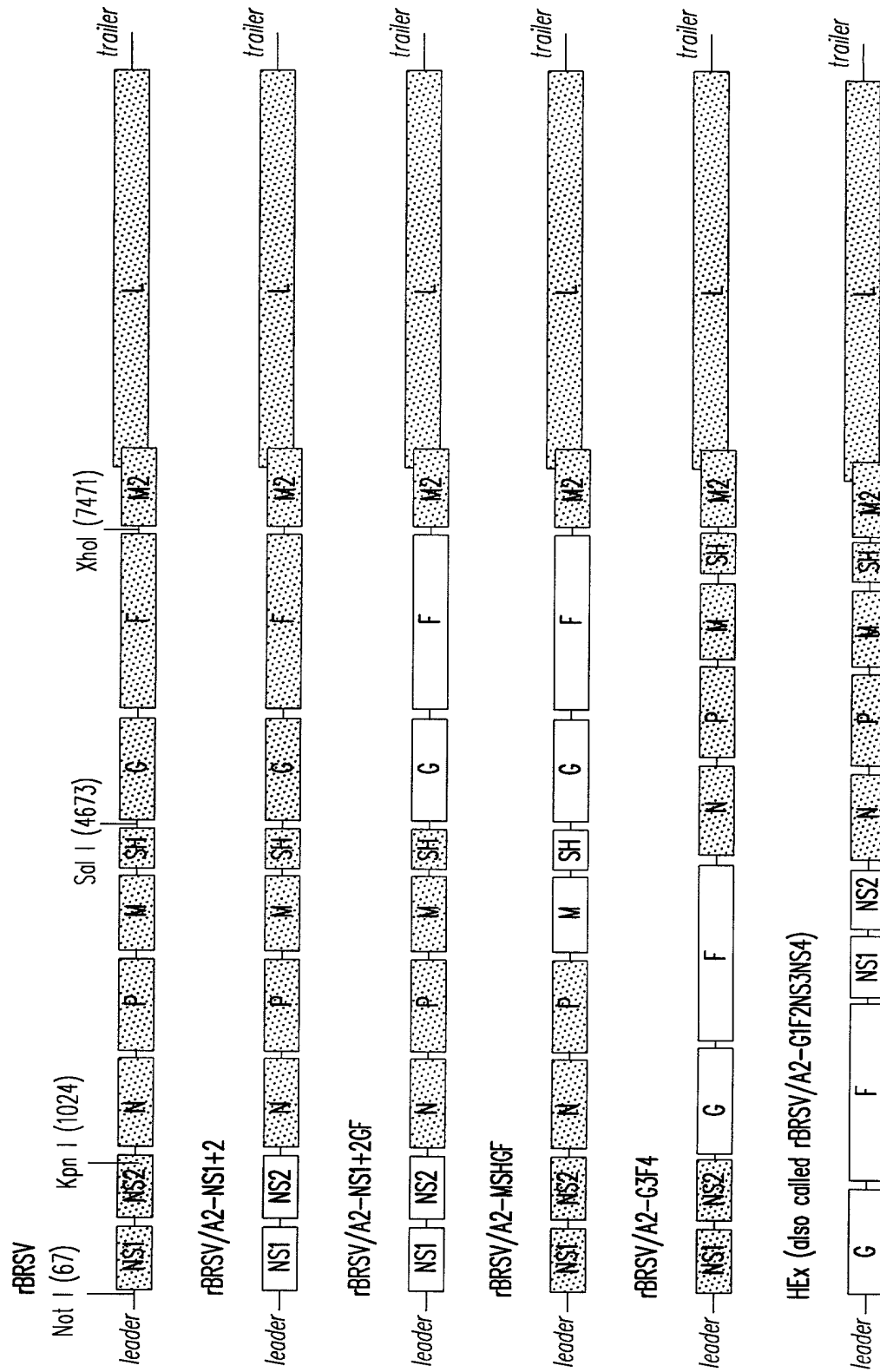


C. Structure of rBRSV/A2-MGF



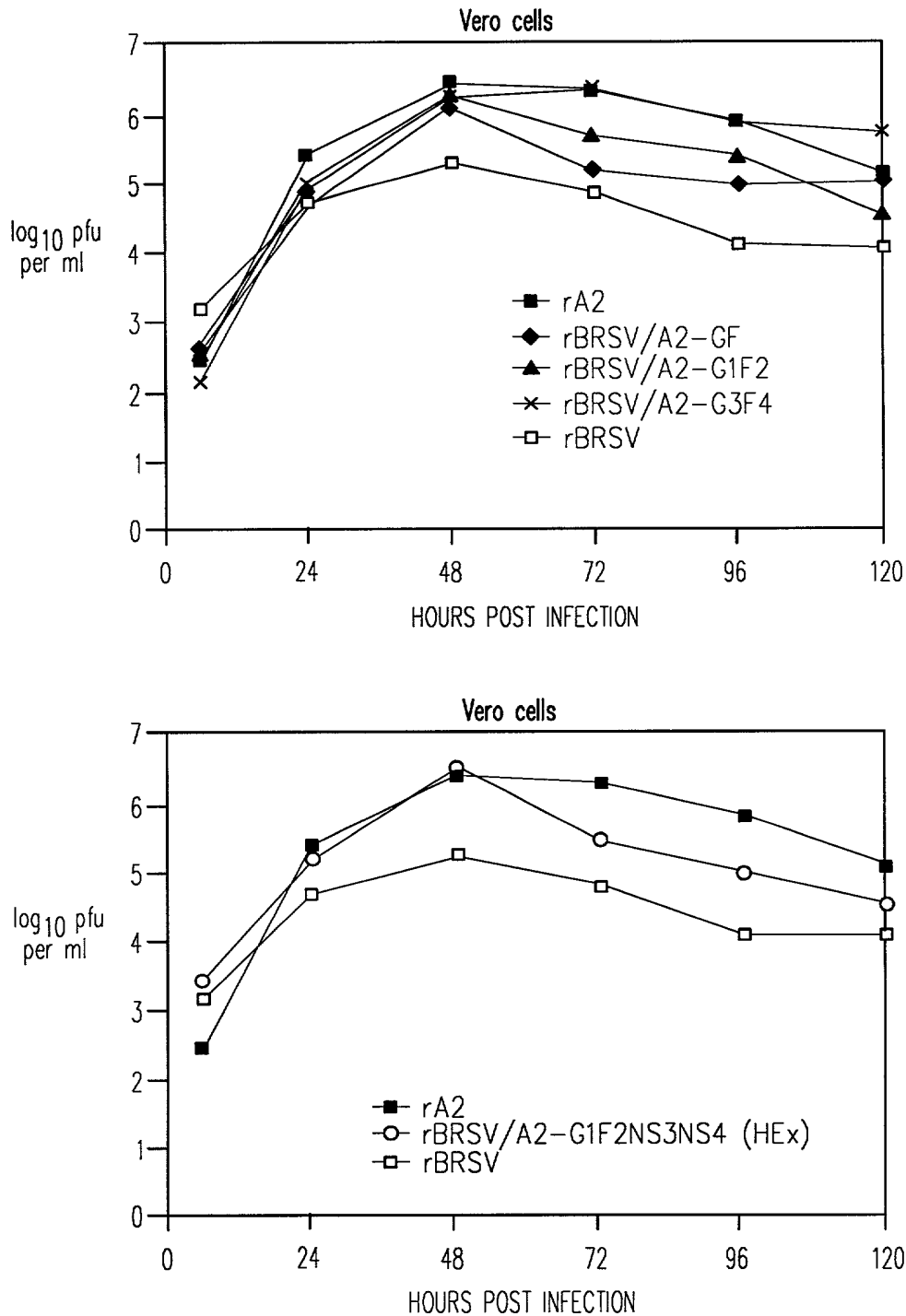
10/17

FIG. 10



11/17

FIG. 11



12/17

FIG. 12

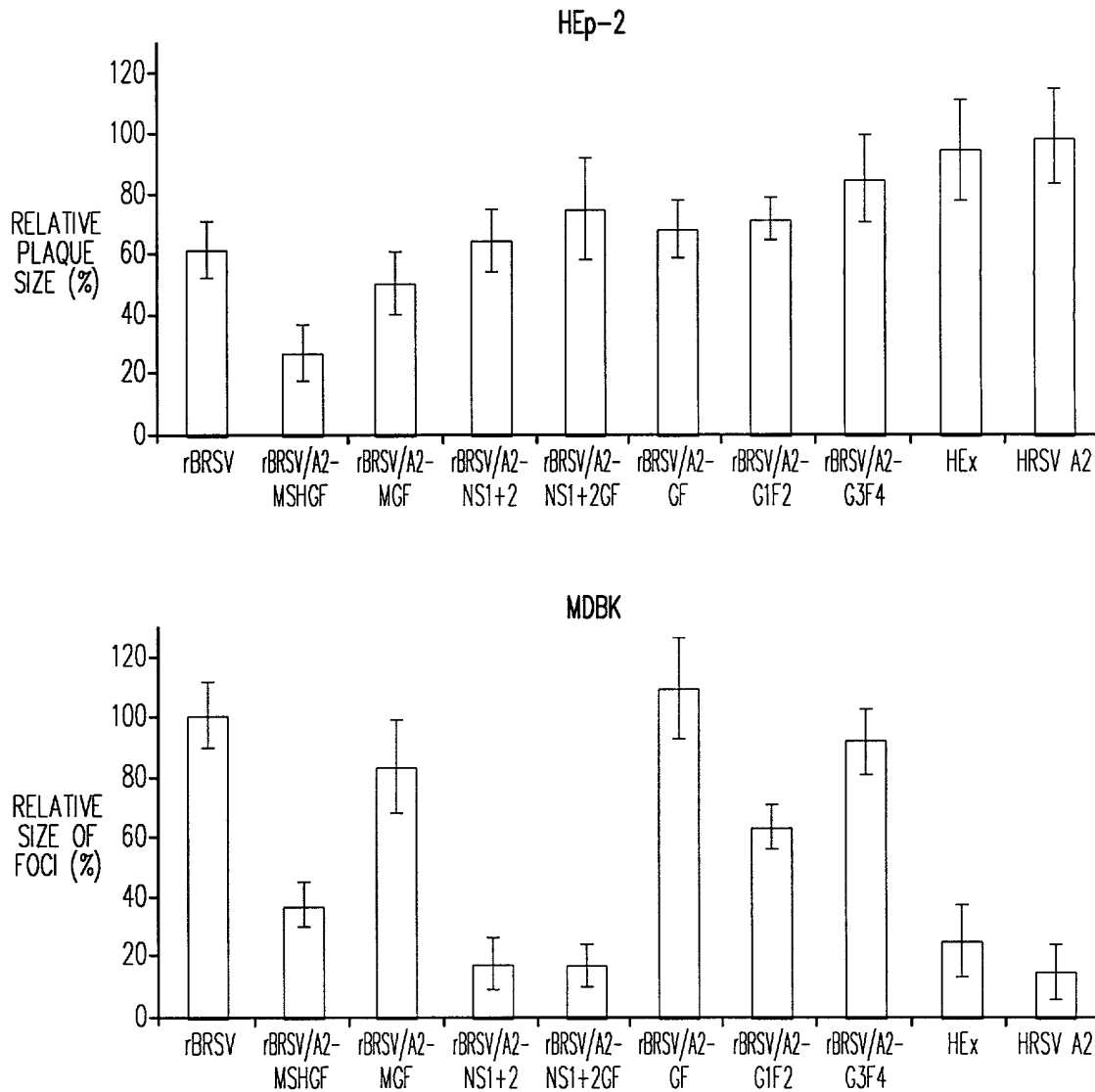
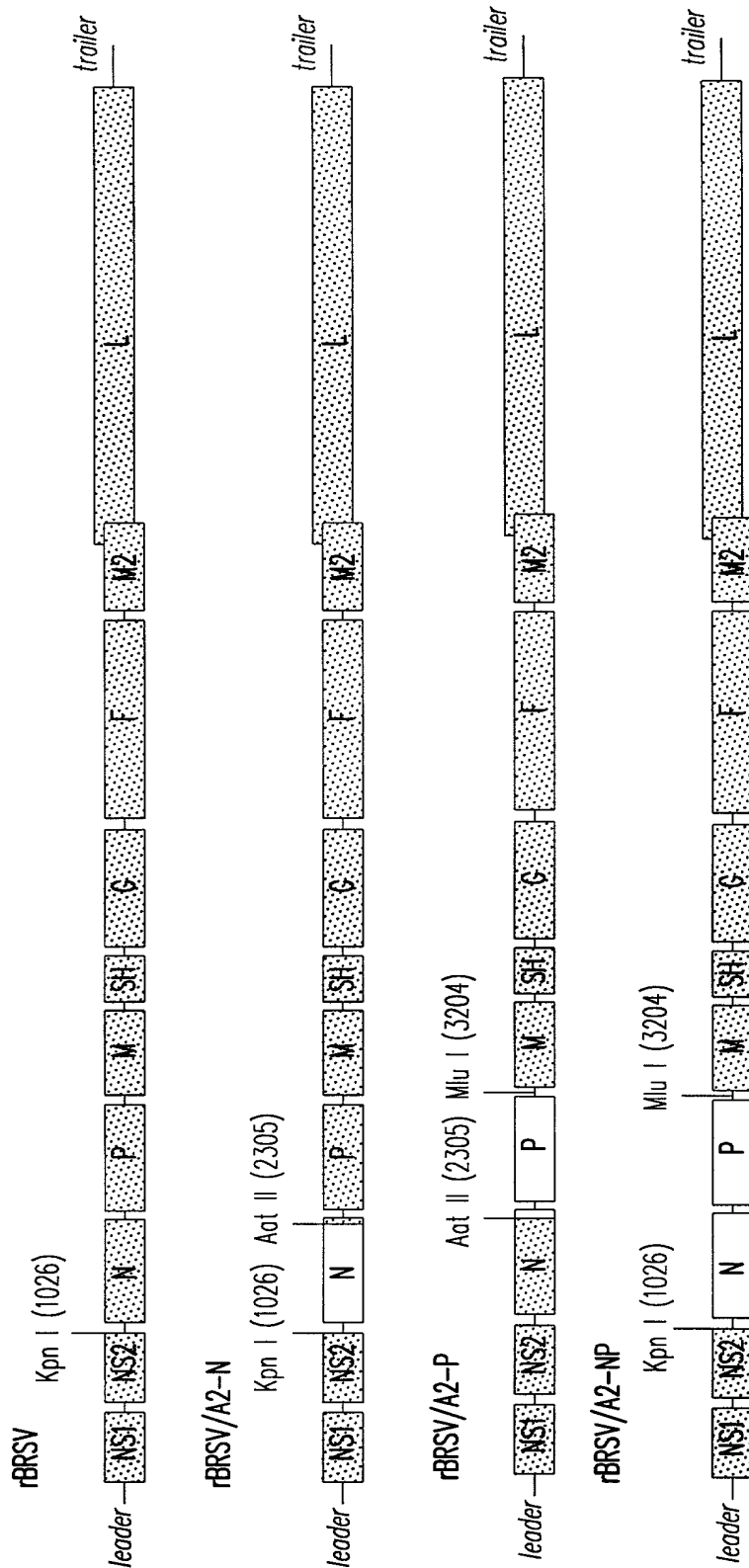


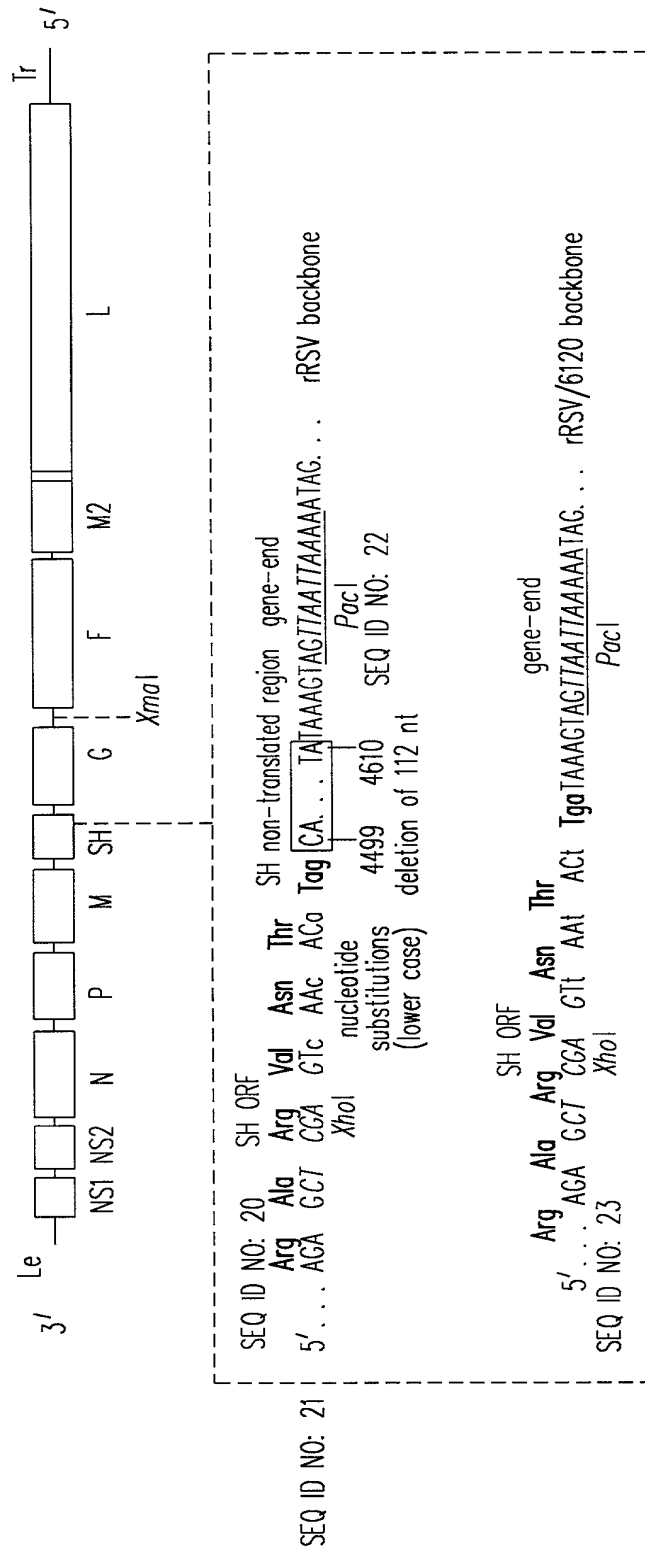
FIG. 13A



14/17



FIG. 14



16/17

FIG. 15A

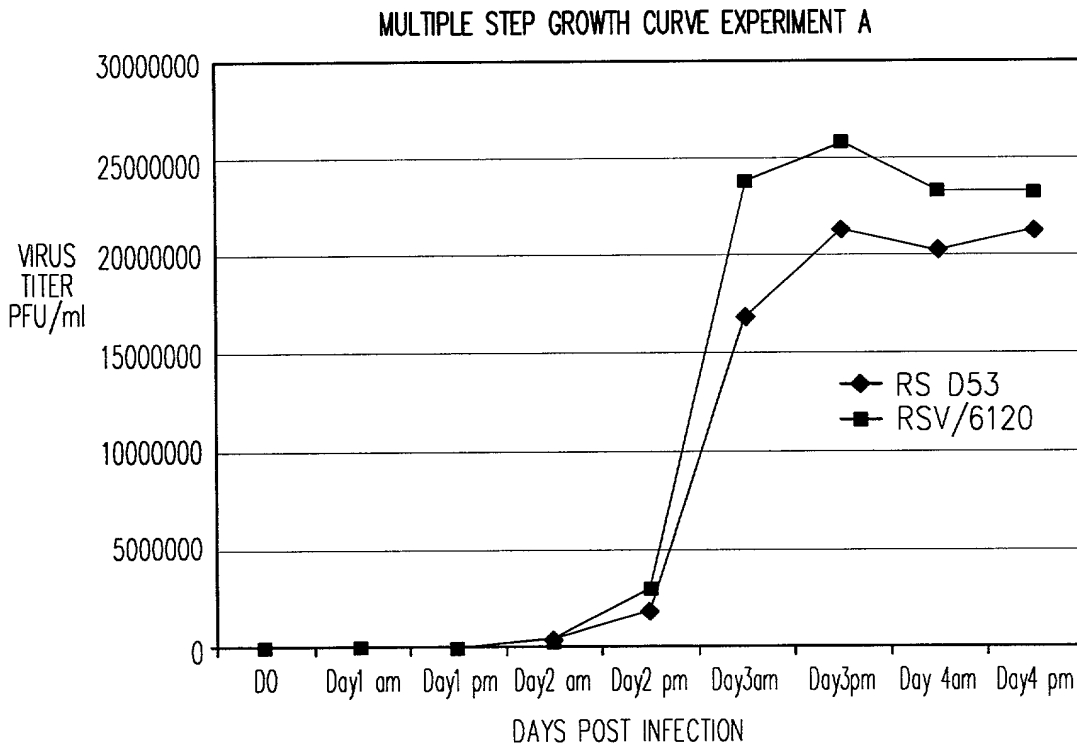
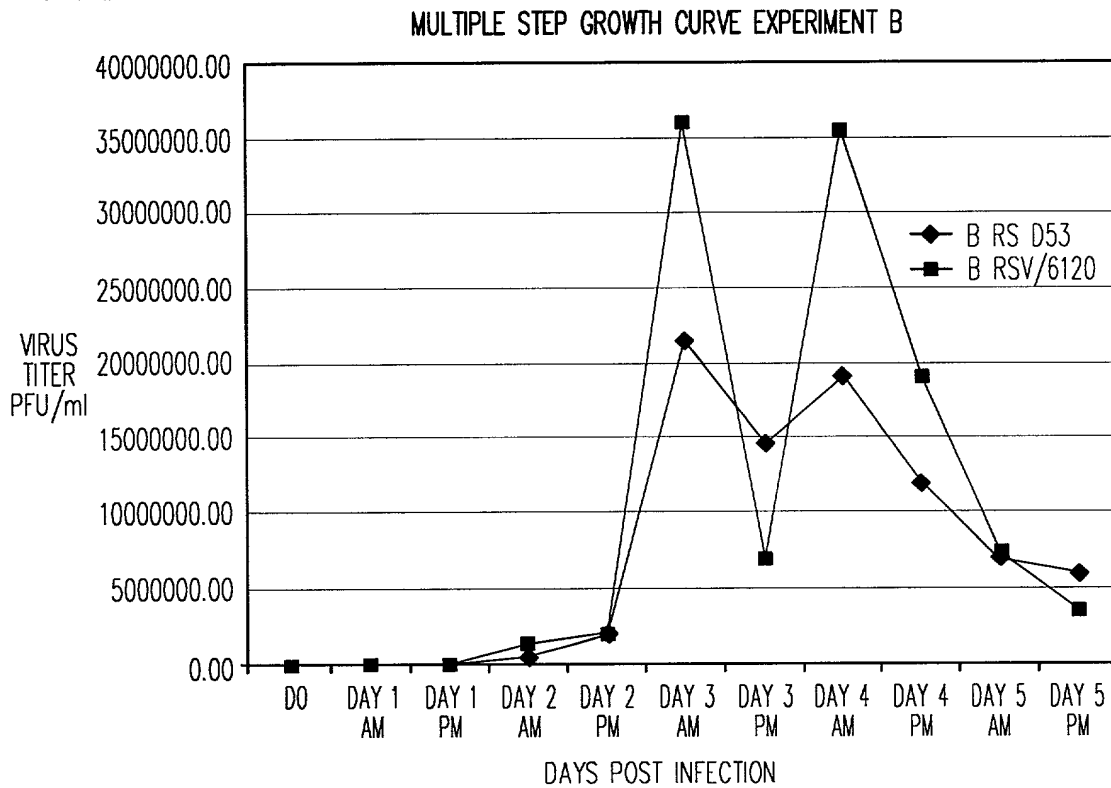


FIG. 15B



17/17

FIG. 15C

